

## Message Text

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TO AMCONSUL RIO DE JANEIRO

UNCLAS STATE 052966

FOLLOWING REPAT STATE 052966 ACTION ABIDJAN MONROVIA BRASILIA

4 MAR 76

QUOTE

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E.O. 11652: N/A

TAGS: OCLR, TGEN, TPHY, IV, LI, BR

SUBJECT: R/V GYRE CLEARANCE REQUEST 6 MAY - 21 JUL 1976

1. R/V GYRE, A PRIVATE VESSEL OPERATED BY TEXAS A AND M UNIVERSITY AND FUNDED BY THE NATIONAL SCIENCE FOUNDATION, IS PLANNING TO CONDUCT A MARINE RESEARCH CRUISE OFF IVORY COAST, LIBERIA, AND BRAZIL DURING THE PERIOD 6 MAY - 21 JULY 1976. SCIENTISTS PARTICIPATING ARE FROM THE UNIVERSITY OF RHODE ISLAND AND TEXAS A AND M.

2. PHASE I WILL BE CONDUCTED FROM 6-27 MAY OFF IVORY COAST AND LIBERIA. OBJECTIVES ARE TO STUDY THE FATE OF PHOSPHORUS DEPOSITED FROM THE SEA IN A VERY PRODUCTIVE REGION AND TO STUDY THE OXYGEN UPTAKE OF THESE SEDIMENTS CAUSED BY BACTERIAL UTILIZATION OF THE ORGANIC MATTER DEPOSITED WITH THE PHOSPHORUS. CORES WILL BE TAKEN TO OBTAIN SEDIMENT SAMPLES AND A BENTHIC RESPIROMETER WILL BE USED TO MEASURE OXYGEN UPTAKE BY THE BOTTOM SEDIMENTS.

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ALSO, WATER SAMPLES WILL BE MEASURED FOR SALINITY,

TEMPERATURE, DENSITY AND OXYGEN.

A. EQUIPMENT UTILIZED WILL INCLUDE A PISTON CORER, 3.5 KHZ PROFILER, XBT,STDO,---WATER SAMPLERS, AND DEEP SEA

CAMERA.

B. CHIEF SCIENTISTS ARE MR. P. FROELICH AND DR. M. L. BENDER.

C. CRUISE WILL BEGIN AT ABIDJAN 6 MAY AND END AT ABIDJAN ON 27 MAY.

D. STATION LOCATION CHART WILL BE FORWARDED VIA AIRGRAM.

3. PHASE II WILL BE CONDUCTED FROM 1-19 JUNE OFF LIBERIA AND BRAZIL. THREE CURRENT METERS WILL BE DEPLOYED FOR ONE YEAR TO MEASURE TIME DEPENDENT MOTIONS IN THE GULF OF GUINEA. IN ADDITION, CORES WILL BE TAKEN TO PROVIDE DATA ON THE DIAGENESIS OF ORGANIC MATTER IN 3 TYPES OF ENVIRONMENTS - UPWELLING AREA, OPEN OCEAN LOW-PRODUCTIVITY AREA, AND A MODERATELY PRODUCTIVE COASTAL ZONE. TO PROVIDE ADDITIONAL DATA WATER SAMPLES WILL BE MEASURED FOR SALINITY, TEMPERATURE, DENSITY AND OXYGEN CONTENT, AND A 3.5 KHZ PROFILER WILL BE USED TO DETERMINE WATER DEPTHS.

A. EQUIPMENT WILL INCLUDE PISTON CORERS, 3.5 KHZ PROFILERS, XBT'S,--STDO,-- CURRENT METERS AND NISKIN BOTTLES.

B. CHIEF SCIENTIST IS T. VAN VLEET.

C. CRUISE WILL BEGIN AT ABIDJAN ON 1 JUNE AND END AT RECIFE, BRAZIL ON 19 JUNE.

D. STATION LOCATION CHART WILL BE FORWARDED VIA AIRGRAM.

4. PHASE III WILL BE CONDUCTED FROM 23 JUNE - 21 JULY OFF BRAZIL. THE OBJECTIVE IS TO INVESTIGATE THE NORTH UNCLASSIFIED

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EQUATORIAL COUNTERCURRENT SYSTEM BY MEANS OF SWALLOW-FLOAT CURRENT MEASUREMENTS AND BY WATER-CHARACTERISTIC DETERMINATIONS AT SELECTED STATIONS. THE STATIONS WILL BE ABOUT 40N.M. APART AND CONCENTRATED IN AREAS OF GREATEST CURRENT FLOW. AT EACH STATION STD'S AND NANSEN CASTS WILL BE TAKEN TO IDENTIFY THERMAL AND SALINITY PROFILES.

A. EQUIPMENT WILL INCLUDE SWALLOW FLOATS, XBT'S, SURFACE THERMOGRAPH AND SALINOGRAPH, NANSEN BOTTLES, STD'S, AND A PYRHELIOMETER.

B. CHIEF SCIENTIST IS J. D. COCHRANE.

C. CRUISE WILL BEGIN AT RECIFE ON 23 JUNE AND END AT BARBADOS ON 21 JULY. A PORT CALL IS PLANNED AT FORTALEZA ABOUT 6-7 JULY.

D. STATION LOCATION CHART WILL BE FORWARDED VIA AIRGRAM.

5. R/V GYRE IS 292 GROSS TONS, 174 FEET LONG, DRAFT 12 FEET, WITH A CREW OF 10 AND SCIENTIFIC PARTY OF 16. SHIP'S MASTER IS CHARLES K. HOLZER. RADIO CALL SIGN IS KJCL AND SHIP MONITORS EMERGENCY FREQUENCIES AND COMMUNICATES DAILY WITH WOM IN MIAMI.

6. ALL DATA RESULTS WILL BE SHARED WITH HOST COUNTRIES AND FOREIGN PARTICIPATION IS WELCOME ON ALL PHASES OF THE CRUISE.

7. ACTION REQUESTED.

PHASE I - EMBASSIES IN IVORY COAST AND LIBERIA SEEK CLEARANCES FOR R/V GYRE TO CONDUCT MARINE RESEARCH IN THE TERRITORIAL WATERS AND ON CONTINENTAL SHELVES OF RESPECTIVE COUNTRIES.

PHASE II - EMBASSIES IN LIBERIA AND BRAZIL SEEK CLEARANCES FOR R/V GYRE TO CONDUCT MARINE RESEARCH IN THE TERRITORIAL WATERS AND ON THE CONTINENTAL SHELVES OF THE RESPECTIVE COUNTRIES.

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PHASE III - EMBASSY IN BRAZIL SEEK CLEARANCE FOR R/V GYRE TO CONDUCT MARINE RESEARCH IN THE TERRITORIAL WATERS OF BRAZIL. KISSINGER  
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